

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	(hydrophobin) and (plastic-degrading enzyme)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/06/26 09:47
L2	190	(hydrophobin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/06/26 09:42
L3	46	L2 and @py<"2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/06/26 09:42
L4	9	(plastic-degrading enzyme)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/06/26 09:49
L5	3	"6902887".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/06/26 10:02
L6	11050	(abe\$.in.)	USPAT	ADJ	ON	2007/06/26 10:05
L7	0	6 and (degrading plastic)	USPAT	ADJ	ON	2007/06/26 10:06
L8	1483	6 and (plastic)	USPAT	ADJ	ON	2007/06/26 10:06
L9	1	8 and (hydrophobin)	USPAT	ADJ	ON	2007/06/26 10:07
L10	410	gomi\$.in.	USPAT	ADJ	ON	2007/06/26 10:07
L11	56	10 and (plastic)	USPAT	ADJ	ON	2007/06/26 10:08
L12	0	11 and (hydrophobin)	USPAT	ADJ	ON	2007/06/26 10:08

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"hydrophobin"

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- ☐ **21. Distribution of hydrophobin 1 gene transcript in developing fruiting bodies of *Lentinula edodes*.**

Nishizawa, Hiroo / Miyazaki, Yasumasa / Kaneko, Shinya / Shishido, Kazuo ,
Bioscience, biotechnology, and biochemistry, 66 (9), p.1951-1954, Sep 2002

Results of in situ RNA-RNA hybridization showed the presence of transcripts of the *Lentinula edodes* **hydrophobin** 1 gene, *Le.hyd1*, everywhere in the mycelial tissues of developing fruiting bodies except for the top parts of the pileus (cap...

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- ☐ **22. Expression of a fungal hydrophobin in the *Saccharomyces cerevisiae* cell wall: effect on cell surface properties and immobilization.**

Nakari-Setälä, Tiina / Azeredo, Joana / Henriques, Mariana / Oliveira, Rosário / Teixeira, José / Linder, Markus / Penttilä, Merja ,
Applied and environmental microbiology, 68 (7), p.3385-3391, Jul 2002

...*cerevisiae* by expression of the HFBI **hydrophobin** of the filamentous fungus *Trichoderma*...increase in the binding affinity of the **hydrophobin**-producing yeast to hydrophobic silicone-based...in the initial adsorption rate of the **hydrophobin** yeast was observed. Furthermore, due...

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- ☐ **23. A novel two-step extraction method with detergent/polymer systems for primary recovery of the fusion protein endoglucanase I-hydrophobin I.**

Collén, Anna / Persson, Josefine / Linder, Markus / Nakari-Setälä, Tiina / Penttilä, Merja / Tjerneld, Folke / Sivars, Ulf ,
Biochimica et biophysica acta, 1569 (1-3), p.139-150, Jan 2002

...membrane proteins. Here, we examine the partitioning and purification of the amphiphilic fusion protein endoglucanase I(core)-**hydrophobin** I (EGI(core)-HFBI) from culture filtrate originating from a *Trichoderma reesei* fermentation. The micelle extraction

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- ☐ **24.** Immunoglobulin E-binding and skin test reactivity to hydrophobin HCh-1 from *Cladosporium herbarum*, the first allergenic cell wall component of fungi.
Weichel, M / Schmid-Grendelmeier, P / Rhyner, C / Achatz, G / Blaser, K / Cramer, R, *Clinical and experimental allergy : journal of the British Society for Allergy and Clinical Immunology*, 33 (1), p.72-77, Jan 2003
...classical signature of members of the **hydrophobin** family. The recombinant protein, termed...the allergenic nature of *C. herbarum* **hydrophobin** and indicating a prevalence of sensitization...the range of 8-9%. In contrast, the **hydrophobin** HYP1 from *Aspergillus fumigatus* was...

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- ☐ **25.** Overproduction, purification, and characterization of the *Trichoderma reesei* hydrophobin HFBI.
Askolin, S / Nakari-Setälä, T / Tenkanen, M, *Applied microbiology and biotechnology*, 57 (1-2), p.124-130, Oct 2001
Many characteristics of fungal **hydrophobins**, such as an ability to change hydrophobicity...production and purification of a **hydrophobin**, HFBI of *Trichoderma reesei*. A high production level of the class II **hydrophobin** (0.6 g l⁻¹) was obtained by constructing...

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- ☐ **26.** Identification of a hydrophobin gene that is developmentally regulated in the ectomycorrhizal fungus *Tricholoma terreum*.
Mankel, Angela / Krause, Katrin / Kothe, Erika, *Applied and environmental microbiology*, 68 (3), p.1408-1413, Mar 2002
...this process. We determined the role of **hydrophobins** produced by *Tricholoma terreum* in mycorrhiza formation and hyphal development. A **hydrophobin** was purified from culture supernatant...heterologous antiserum directed against a **hydrophobin** found in the aerial mycelium of *Schizophyllum*...




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- ☐ **27.** Cloning and expression analysis of a new hydrophobin cDNA from the ectomycorrhizal basidiomycete *Pisolithus*.
Duplessis, S / Sorin, C / Voiblet, C / Palin, B / Martin, F / Tagu, D, *Current genetics*, 39 (5-6), p.335-339, Jul 2001
Hydrophobins are fungal cell wall proteins which play a crucial...and aggregative processes. We have identified a new **hydrophobin** cDNA (hydPt-3) in the symbiotic mycelium of *Pisolithus*...previously identified *Pisolithus* symbiosis-regulated **hydrophobins**, hydPt-1 and hydPt-2. Also, expression analyses demonstrated...

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- ☐ **28.** A novel two-step extraction method with detergent/polymer systems for primary recovery of the fusion protein endoglucanase ...
Collén, Anna / Persson, Josefine / Linder, Markus / Nakari-Setälä, Tiina / Penttilä, Merja / Tjerneld, Folke / Sivars, Ulf, *article*, Jan 2002
 Extraction systems for hydrophobically tagged proteins have been developed based on phase separation in aqueous solutions of non-ionic detergents and polymers. The systems have earlier only been applied for separation of membrane proteins. Here, we ...
[\[http://lu-research.lub.lu.se/php/gateway.php?who=lr&me...\]](http://lu-research.lub.lu.se/php/gateway.php?who=lr&me...)
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- ☐ **29.** The hydrophobin EAS is largely unstructured in solution and functions by forming amyloid-like structures.
Mackay, J P / Matthews, J M / Winefield, R D / Mackay, L G / Haverkamp, R G / Templeton, M D, *Structure (London, England : 1993)*, 9 (2), p.83-91, Feb 2001
 BACKGROUND: Fungal **hydrophobin** proteins have the remarkable ability...elusive. We have studied EAS, the **hydrophobin** from the ascomycete *Neurospora crassa*...understand the structural aspects of **hydrophobin** polymerization. RESULTS: We have...
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- ☐ **30.** Cerato-ulmin, a toxin involved in Dutch elm disease, is a fungal hydrophobin.
Stringer, M A / Timberlake, W E, *The Plant Cell*, Jul 2003
Published journal article available from  PubMed Central
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- ☐ **31.** Method of binding a compound to a sensor surface using hydrophobin
Rogalska, Eva Maria / Tagu, Denis Etienne Marie André / Bilewicz, Renata, *EUROPEAN PATENT APPLICATION*, Jan 2003
 patno:EP1279742
 ...method comprising the step of adsorbing **hydrophobin** to said sensor surface. Generally, there...achieve this, it is known to adsorb **hydrophobin** to the surface of a sensor, and to chemically link a compound to the adsorbed **hydrophobin**. In particular, Wessels et al. (Advances...
Full text available at patent office. For more in-depth searching go to  LexisNexis™
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- ☐ **32.** Bioscience, Biotechnology and Biochemistry [23K]
 Jul 2003
 ...Toluene In Seon KIM,1, Jae Han SHIM,2 and Yong Tack SUH2 p.1945 Note Distribution of **Hydrophobin** 1 Gene Transcript in Developing Fruiting Bodies of *Lentinula edodes* Hiroo NISHIZAWA,a Yasumasa...
[\[http://www.jsbba.or.jp/e/e_05/bbb6609e.html\]](http://www.jsbba.or.jp/e/e_05/bbb6609e.html)
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- ☐ **33.** Hydrophobin gene expression affects hyphal wall composition in *Schizophyllum commune*.
van Wetter, M A / Wösten, H A / Sietsma, J H / Wessels, J G, *Fungal genetics and biology : FG & B*, 31 (2), p.99-104, Nov 2000
 Disruption of the SC3 **hydrophobin** gene of *Schizophyllum commune*...Reintroduction of the SC3 gene or other **hydrophobins** genes expressed behind the SC3...relatively high. These data show that **hydrophobins** not only function at hydrophilic...

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- ☐ **34.** A gene encoding a hydrophobin, fvh1, is specifically expressed after the induction of fruiting in the edible mushroom *Flammulina velutipes*.
Ando, A / Harada, A / Miura, K / Tamai, Y , *Current genetics*, 39 (3), p.190-197, May 2001
...velutipes. Sequence analysis showed that fvh1 encoded for a **hydrophobin**, a small fungal protein usually secreted by filamentous fungi...sequence and a hydropathy pattern characteristics of class I **hydrophobin**. A genomic fvh1 clone was isolated from a *F. velutipes* genomic...

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- ☐ **35.** The hydrophobin HCf-1 of *Cladosporium fulvum* is required for efficient water-mediated dispersal of conidia.
Whiteford, J R / Spanu, P D , *Fungal genetics and biology : FG & B*, 32 (3), p.159-168, Apr 2001
Six **hydrophobin** genes (HCf-1 to -6) have thus far been identified in...pathogen *Cladosporium fulvum*. HCf-1 to -4 are Class I **hydrophobins** and HCf-5 and -6 are Class II **hydrophobins**. In this paper we describe the isolation of deletion...

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- ☐ **36.** Spectroscopic Evidence for Amyloid-like Interfacial Self-Assembly of Hydrophobin Sc3
Butko, P. / Buford, J.P. / Goodwin, J.S. / Stroud, P.A. / McCormick, C.L. / Cannon, G.C. , *Biochemical and Biophysical Research Communications*, 280 (1), p.212-215, Jan 2001
...Amyloid-like Interfacial Self-Assembly of **Hydrophobin** Sc3 Peter Butko Justin P. Buford 1 1...Congo red REFERENCES 1 Wessels J. G. H. **Hydrophobins**: Proteins that change the nature of...G. H. Interfacial self-assembly of a **hydrophobin** into an amphipathic protein membrane...

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- ☐ **37.** HCf-6, a novel class II hydrophobin from *Cladosporium fulvum*
Nielsen, P.S. / Clark, A.J. / Oliver, R.P. / Huber, M. / Spanu, P.D. , *Microbiological Research*, 156 (1), p.59-63, Jan 2001
...Fischer Verlag HCf-6, a novel class II **hydrophobin** from *Cladosporium fulvum* Peter S. Nielsen...been shown to express a complex family of **hydrophobin** genes including four class I **hydrophobins** and one class II **hydrophobin**. Here we describe...

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- ☐ **38.** Structural and functional role of the disulfide bridges in the hydrophobin SC3.
de Vocht, M L / Reviakine, I / Wösten, H A / Brisson, A / Wessels, J G / Robillard, G T , *The Journal of biological chemistry*, 275 (37), p.28428-28432, Sep 2000

Hydrophobins function in fungal development by self-assembly at hydrophobic-hydrophilic...bridges on the self-assembly, the disulfides of the SC3 **hydrophobin** were

reduced with 1,4-dithiothreitol. The free thiols...are not directly involved in self-assembly but keep **hydrophobin** monomers soluble in the fungal cell or its aqueous environment...

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- ☐ **39.** [HcF-6, a novel class II hydrophobin from *Cladosporium fulvum*.](#)
Nielsen, P S / Clark, A J / Oliver, R P / Huber, M / Spanu, P D , *Microbiological research*, 156 (1), p.59-63, Jan 2001
...fungal tomato pathogen, has previously been shown to express a complex family of **hydrophobin** genes including four class I **hydrophobins** and one class II **hydrophobin**. Here we describe a gene for HcF-6, a sixth member of the **hydrophobin** family and...

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- ☐ **40.** [The Hydrophobin HcF-1 of *Cladosporium fulvum* Is Required for Efficient Water-Mediated Dispersal of Conidia](#)
Whiteford, J.R. / Spanu, P.D. , *Fungal Genetics and Biology*, 32 (3), p.159-168, Apr 2001
...91263-0 Academic Press Regular Article The **Hydrophobin** HcF-1 of *Cladosporium fulvum* Is Required...Medicine, London, United Kingdom Six **hydrophobin** genes (HcF-1 to -6) have thus far...*Cladosporium fulvum*. HcF-1 to -4 are Class I **hydrophobins** and HcF-5 and -6 are Class II **hydrophobins**...

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Interfacial Self-Assembly of a Fungal **Hydrophobin into a Hydrophobic Rodlet Layer - all 5 versions »**

HAB Wosten, OMH de Vries, JGH Wessels - The Plant Cell Online, 1993 - Am Soc Plant Biol ... RESEARCH ARTICLES. Interfacial Self-Assembly of a Fungal **Hydrophobin** into a Hydrophobic Rodlet Layer. HAB. Wosten, OMH. de Vries and JGH. ...

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Interfacial self-assembly of a **hydrophobin into an amphipathic protein membrane mediates fungal ... - all 3 versions »**

HAB Wösten, FHJ Schuren, JGH Wessels - EMBO J, 1994 - pubmedcentral.nih.gov ... Copyright notice. Interfacial self-assembly of a **hydrophobin** into an amphipathic protein membrane mediates fungal attachment to hydrophobic surfaces. ...

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An abundant **hydrophobin (ABH1) forms hydrophobic rodlet layers in Agaricus bisporus fruiting bodies - all 5 versions »**

LG Lugones, JS Bosscher, K Scholtmeyer, OM de ... - Microbiology, 1996 - Soc General Microbiol

... Microbiology. ARTICLES. An abundant **hydrophobin** (ABH1) forms hydrophobic rodlet layers in Agaricus bisporus fruiting bodies. LG Lugones ...

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MPG1 Encodes a Fungal **Hydrophobin Involved in Surface Interactions during Infection-Related ... - all 6 versions »**

NJ Talbot, MJ Kershaw, GE Wakley, OMH de Vries, ... - The Plant Cell Online, 1996 - Am Soc Plant Biol

... MPG1 Encodes a Fungal **Hydrophobin** Involved in Surface Interactions during Infection-Related Development of ... MPG1 Directs Formation of a Class I **Hydrophobin** ...

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... relationships in Aspergillus section Fumigati inferred from partial betatubulin and **hydrophobin DNA ... - all 4 versions »**

DM Geiser, JC Frisvad, JW Taylor - Mycologia, 1998 - apt.allenpress.com

90, No. 5, pp. 831-845. Evolutionary relationships in Aspergillus section Fumigati inferred from partial β -tubulin and **hydrophobin** DNA sequences. ...

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MPG1, a gene encoding a fungal **hydrophobin of Magnaporthe grisea, is involved in surface recognition ... - all 2 versions »**

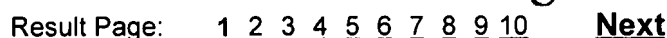
JL Beckerman, DJ Ebole - Mol Plant Microbe Interact, 1996 - ncbi.nlm.nih.gov

MPG1, a gene encoding a fungal **hydrophobin** of Magnaporthe grisea, is involved in surface recognition. Beckerman JL, Ebole DJ. Department ...

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Hydrophobin Genes Involved in Formation of Aerial Hyphae and Fruit Bodies in Schizophyllum - all 5 versions »

MA van Wetter, FHJ Schuren, TA Schuurs, JGH ... - FEMS Microbiol. Lett, 1996 - Blackwell Synergy
... Targeted mutation of the SC3 **hydrophobin** gene of ... The SC3 **hydrophobin** gene of Schizophyllum commune was disrupted by homologous integration of an SC3 genomic ...
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Fusarium polycaprolactone depolymerase is **cutinase** - all 4 versions »

CA Murphy, JA Cameron, SJ Huang, RT Vinopal - Applied and Environmental Microbiology, 1996 - Am Soc Microbiol

... pectinase (1 g/liter) and **Aspergillus niger** cellulase (5 g/liter; Sigma Chemical Co ... Because the **cutinase**-negative mutant does not grow on cutin, cultures to ...

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Cloning of **Cutinase** Transcription Factor 1, a Transactivating Protein Containing Cys6Zn2 Binuclear ... - all 3 versions »

D Li, PE Kolattukudy - Journal of Biological Chemistry, 1997 - ASBMB

... cDNA clone encoding a polypeptide designated **cutinase** transcription factor 1 ... carlsbergensis, Kluyveromyces lactis, Neurospora crassa, **Aspergillus nidulans**, and ...

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Surface-induced changes in the structure and activity of enzymes physically immobilized at solid/ ... - all 9 versions »

W Norde, T Zoungrana - Biotechnology and Applied Biochemistry, 1998 - bab.portlandpress.com

... **Cutinase** from **Aspergillus oryzae** was a gift from Unilever (Vlaardingen, The Netherlands). **Cutinase** is also able to hydrolyse soluble esters. Page 3. ...

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Inactivation of polycaprolactone depolymerase (**cutinase**) in Fusarium cultures by an extracellular ... - all 3 versions »

CA Murphy, JA Cameron, SJ Huang, RT Vinopal - Journal of Industrial Microbiology and Biotechnology, 1999 - Springer

... Because the optimum pH for Fusarium **cutinase** activity is between 9 and ... pectin lyase B and secreted heterologous cloned proteins in **Aspergillus niger** cultures ...

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Effect of disruption of a **cutinase** gene (cutA) on virulence and tissue specificity of Fusarium ... - all 6 versions »

RN Crowhurst, SJ Binnie, JK Bowen, BT Hawthorne, ... - Mol Plant Microbe Interact, 1997 - apsnet.org

... Genes encoding **cutinase** have been cloned from several fungi including Alternaria brassicicola (Yao and Köller 1994), **Aspergillus oryzae** (Ohnishi et al. ...

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Induction of a Biopolyester Hydrolase (**Cutinase**) by Low Levels of Cutin Monomers in Fusarium solani ... - all 3 versions »

TS Lin, PE Kolattukudy - Journal of Bacteriology, 1978 - Am Soc Microbiol

... in the medium, thus showing a dual control of **cutinase** production. ... p-nitrophenyl butyrate (PNB), o- dianisidine, glucose oxidase (from **Aspergillus niger**), and ...

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Studies on ferulic acid esterase activity in fungal lipases and cutinases - all 3 versions »

A Andersen, A Svendsen, J Vind, SF Lassen, C Hjort ... - Colloids and Surfaces B: Biointerfaces, 2002 - aapspharmaceutica.com

... In addition to lipase activity, three cutinases showed ferulic acid esterase activity, **Aspergillus oryzae cutinase** (5 U/mg), **Fusarium solani pisi cutinase** (13 U ...

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Regulation of Constitutively Expressed and Induced **Cutinase** Genes by Different Zinc Finger ... - all 5 versions »

D Li, T Sirakova, L Rogers, WF Ettinger, PE ... - Journal of Biological Chemistry, 2002 - ASBMB

... Binding to the palindromic DNA element in the **cutinase** promoter by the expressed ... NIRA (39), UAY (40), QUTA (41), and AMDR (42) of **Aspergillus nidulans**; and ...

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... the cDNA and gene for an elastinolytic aspartic proteinase from.

Aspergillus fumigatus and evidence ... - all 5 versions »

JD Lee, PE Kolattukudy - Infection and Immunity, 1995 - Am Soc Microbiol

... and deletion of the gene encoding aspergillopepsin A from **Aspergillus awamori**. ... Identifi-

cation of regulatory elements in the **cutinase** promoter from **Fusarium** ...

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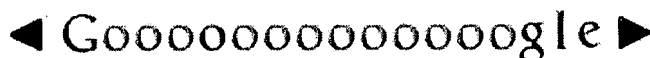
Aspergillus niger?

N Kraševac, CA van den Hondel, R Komel - Pflügers Archiv European Journal of Physiology, 2000 - Springer

... in the GRAS filamentous fungus **A. niger**, because the **Aspergillus** expression-secretion ...

different efficiencies, as for example in the case of **cutinase** mutants [III ...

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